

In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Currently Amended): An anti-corrosion shower head used in a dry etching tool to spray a gas, comprising:

an aluminum base, having a front side and a rear side;~~and~~

a ceramic nozzle plate embedded in the front side of the aluminum base while the rear side of the aluminum base corresponding to the ceramic nozzle plate being hollowed, and the ceramic nozzle plate having a plurality of gas holes to spray the gas; and

an Al₂O₃ film formed on a surface of the shower head by electroplating in an oxalic acid solution.

Claim 2 (Original): The shower head according to claim 1, wherein the aluminum base is a cross-shaped piece of aluminum.

Claim 3 (Original): The shower head according to claim 1, wherein the ceramic nozzle plate is cross-shaped.

Claim 4 (Original): The shower head according to claim 1, wherein the ceramic nozzle plate is ceramics with purity of at least 99.5 %.

Claim 5 (Original): The shower head according to claim 1, wherein the ceramic nozzle plate is embedded at the central part of the aluminum base.

Claim 6 (Cancelled).

Claim 7 (Currently Amended): An anti-corrosion shower head used in a dry etching tool to spray a gas, comprising:

an aluminum base, having a front side and a rear side;~~and~~

an engineering polymer nozzle plate embedded in the front side of the aluminum base while the rear side of the aluminum base corresponding to the engineering polymer nozzle plate being hollowed, and the engineering polymer nozzle plate having a plurality of gas holes to spray the gas; and

an Al₂O₃ film formed on a surface of the shower head by electroplating in an oxalic acid solution.

Claim 8 (Original): The shower head according to claim 7, wherein the aluminum base is a cross-shaped piece of aluminum.

Claim 9 (Original): The shower head according to claim 7, wherein the nozzle plate made of engineering polymer is cross-shaped.

Claim 10 (Original): The shower head according to claim 7, wherein the nozzle plate is made of polyimide resin.

Claim 11 (Original): The shower head according to claim 7, wherein the engineering polymer nozzle plate is embedded at the central part of the aluminum base.

Claim 12 (Cancelled).

Claim 13 (Currently Amended): A method for manufacturing an anti-corrosion shower head, ~~wherein the shower head has an aluminum base and a nozzle plate which the nozzle plate embedded in the aluminum base has a plurality of gas holes, the method comprising the steps of:~~

providing a shower head, the shower head having an aluminum base and a nozzle plate, and the nozzle plate embedded in a front side of the aluminum base while a rear side of the aluminum base corresponding to the nozzle plate being hollowed, and the nozzle plate having a plurality of gas holes;

providing an oxalic acid solution; and

coating-electroplating the shower head by the oxalic acid solution to form an Al_2O_3 film on the surface of the shower head by electrodepositing an oxalic acid solution.

Claim 14 (Original): The method according to claim 13, wherein the thickness of the Al_2O_3 film is about 25~35 μm .

Claim 15 (Original): The method according to claim 13, wherein the nozzle plate is a ceramic nozzle plate.

Claim 16 (Original): The method according to claim 15, wherein both the aluminum base and the ceramic nozzle plate are cross-shaped, and the ceramic nozzle plate is embedded at the central part of the aluminum base.

Claim 17 (Original): The method according to claim 15, wherein the ceramic nozzle plate is ceramics with purity of at least 99.5 %.

Claim 18 (Original): The method according to claim 13, wherein the nozzle plate is made of engineering polymer.

Claim 19 (Original): The method according to claim 18, wherein both the aluminum base and the engineering polymer nozzle plate are cross-shaped, and the engineering polymer nozzle plate is embedded at the central part of the aluminum base.

Claim 20 (Original): The method according to claim 18, wherein the nozzle plate is made of polyimide resin.